

## Legume (Fabaceae)

## Grainal 79

See Iron alloy, base, Fe,Al,B,Mn,Si,Ti,Zr (Grainal 79) [37286-17-2]

## Grain boundaries

See also narrower: Antiphase boundaries

See also related:

Crystal dislocations  
Domain boundaries  
Grain boundary diffusion  
Grain boundary segregation  
Nanostructures  
Solid-solid interface  
Twining (crystals)

## Grain boundary diffusion

See also related: Grain boundaries

## Grain boundary interface

See Grain boundaries

## Grain boundary segregation

See also related: Grain boundaries

## Grain growth

See also related:

Crystallites  
Crystallization  
Grain size  
Heat treatment  
Recrystallization

## Grain refinement

See also related:

Annealing  
Grain size  
Heat treatment  
Microstructure

## Grains (particles)

See also related: Granular materials

## Grain size

See also related:

Crystallites  
Grain growth  
Grain refinement  
Recrystallization  
Size distributions

## Grainstone

## GR 80AK

See Silica, vitreous [60676-86-0]

## Gralen

See Carbon fibers

## Gralen 2

See Carbon fibers

## Gram

The plant is indexed at this heading. The unit is indexed at Mass, Weight

See also

Chickpea (*Cicer arietinum*)  
*Dolichos biflorus*

black — see *Vigna mungo*

green — see *Vigna radiata*

## Gramenone

See 1(4H)-Naphthalene, 4a,5,6,7,8,8a-hexahydro-4a,7-dimethyl-2-(1-methylethyl)- [151171-27-6]

## Gramevin

See Propanoic acid, 2,2-dichloro-, sodium salt [127-20-8]

## Gramicidin [1405-97-6]

Studies of gramicidins as a class, or of unspecified gramicidins, are indexed at this heading. For studies of specific gramicidins, see those specific headings

## Gramicidin A [11029-61-1]

HCO-A-Gly-L-Ala-D-Leu-L-Ala-D-Val-L-Val-

D-Val-L-Trp-D-Leu-L-Trp-D-Leu-L-Trp-

D-Leu-L-Trp-NHCH<sub>2</sub>CH<sub>2</sub>OH

The letter A at position 1 of the sequence shown represents an unspecified amino acid residue. When this residue is specified in the original document, it is cited in the name, e.g., Gramicidin A, 1-L-valine-; otherwise, the name is expressed as completely as possible, e.g., Gramicidin A, 7-D-valine-

## Gramicidin C (Russian)

See Gramicidin S [113-73-5]

## Gramicidin Dubos

See Gramicidin D [1393-88-0]

## Gramicidin S [113-73-5]

L-Leu-D-Phe-L-Pro-L-Val-L-Orn-  
L-Orn-L-Val-L-Pro-D-Phe-L-Leu-

## enantio-Gramicidin S [57287-28-2]

D-Leu-L-Phe-D-Pro-D-Val-D-Orn-  
D-Orn-D-Val-D-Pro-L-Phe-D-Leu-

## enantio-retro-Gramicidin S [57287-30-6]

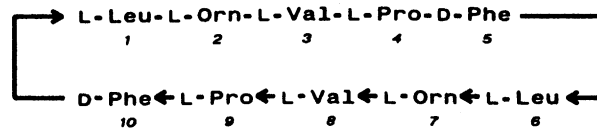
D-Leu-D-Orn-D-Val-D-Pro-L-Phe-  
L-Phe-D-Pro-D-Val-D-Orn-D-Leu-

## iso-Gramicidin S

See Gramicidin S, 5-(Val<sup>4</sup>-N<sup>5</sup>)-L-ornithine-10-

(Val<sup>9</sup>-N<sup>6</sup>)-L-ornithine- [53538-86-6]

## retro-Gramicidin S [22140-73-4]



## Gramicidin S-A

See Gramicidin S [113-73-5]

## Gramicidin S synthetase I

See Racemase, phenylalanine (adenosine triphosphate-hydrolyzing) [37290-95-2]

## Gramilaurone

See 4H-3a,9-Epoxycyclopenta[1]benzopyran-6-(5aH)-one, octahydro-2,3,5a-trihydroxy-9a-(hydroxymethyl)-7,9b-dimethyl-, (2R,3S,3aS,5aS,7R,9S,9aR,9bS)- [135024-45-2]

## Graminasterol

See Lanost-7-en-3-ol, 24-methylene-, (3β)- [88417-30-5]

## Gramine

See 1H-Indole-3-methanamine, N,N-dimethyl- [87-52-5]

## Gramineae

See Grass (Poaceae)

## Graminichlorin

See 2-Butenoic acid, 4-(acetyloxy)-2-methyl-, (3aR,4R,6R,6aS,7S,7aR,8aS,8bS,8cS)-6-(chloromethyl)dodecahydro-6,7-dihydroxy-8a-methyl-3-methylene-2-oxoxireno[2,3]azuleno-[4,5-b]furan-4-yl ester, (2Z)-rel-(-)- [53142-40-8]

## Graminiliatrin

See 2-Butenoic acid, 4-(acetyloxy)-2-methyl-, (3'aR,4'R,6'R,6'aS,7'S,7'aR,8'aS,8'bS,8'cS)-decahydro-7'-hydroxy-8'a-methyl-3'-methylene-2'-oxospiro[oxirane-2,6'(2'H)-oxireno[2,3]-azuleno[4,5-b]furan]-4'-yl ester, (2Z)-rel-(-)- [53142-34-0]

## Graminideoxy

See 2-Butenoic acid, 4-(acetyloxy)-2-methyl-, (3aR,4R,2'R,6aS,7R,9aR,9bR)-3,3a,4,5,6a,7,9a,9b-octahydro-7-hydroxy-9-methyl-3-methylene-2-oxospiro[azuleno[4,5-b]furan-6(2H),2'-oxiran]-4-yl ester, (2Z)- [53142-47-5]

## Graminin A

See 3(2H)-Furanone, 2-(1,3-hexadienyl)-5-methoxy-2-methyl-4-(1-oxo-2-hexenyl)-, (E,E,E)-(-)- [66692-72-6]

## Graminon

See Urea, N,N-dimethyl-N'-[4-(1-methylethyl)phenyl]- [34123-59-6]

## Graminone A

See 1H,3H-Furo[3,4-c]furan-1-one, tetrahydro-3,6-bis(3-hydroxy-5-methoxyphenyl)-, (3R,3aS,6R,6aR)- [161407-72-3]

## Graminone B

See 1H,3H-Furo[3,4-c]furan-1-one, tetrahydro-3-(3-hydroxy-4,5-dimethoxyphenyl)-6-(3-hydroxy-5-methoxyphenyl)-, (3R,3aS,6R,6aR)- [161407-73-4]

## Graminon forte

See Benzenesulfonamide, 2-(2-chloroethoxy)-N-[[4-methoxy-6-methyl-1,3,5-triazin-2-yl]amino]carbonyl-, mixt. with N,N-dimethyl-N'-[4-(1-methylethyl)phenyl]urea [101306-99-4]

## Gramisterin

See Ergosta-7,24(28)-dien-3-ol, 4-methyl-, (3β,4α,5α)- [1176-52-9]

## Gramisterol

See Ergosta-7,24(28)-dien-3-ol, 4-methyl-, (3β,4α,5α)- [1176-52-9]

## Gramixel

See 4,4'-Bipyridinium, 1,1'-dimethyl-, dichloride [1910-42-5]

## Grammitic acid

See Benzoic acid, 2-hydroxy-4-methoxy-3-methyl-6-undecyl- [135607-81-7]

## Gram-negative bacteria

## Gramodendrine

See Pyridine, 1-acetyl-1,2,3,4-tetrahydro-5-[1-(1H-indol-3-ylmethyl)-2-piperidinyl]- [83905-67-3]

## Gramonol

See 4,4'-Bipyridinium, 1,1'-dimethyl-, dichloride, mixt. with N-(4-chlorophenyl)-N-methoxy-N-methylurea [69312-67-0]

## Gramoxone

See 4,4'-Bipyridinium, 1,1'-dimethyl-, dichloride [1910-42-5]

## Gramrione

See 4H-1-Benzopyran-4-one, 2-(3,4-dihydroxy-5-methoxyphenyl)-7-hydroxy-5-methoxy- [188885-68-9]

## Gramurin

See 1,3-Dioxolo[4,5-g]quinoline-7-carboxylic acid, 5-ethyl-5,8-dihydro-8-oxo- [14698-29-4]

## Gramuron

See 4,4'-Bipyridinium, 1,1'-dimethyl-, dichloride, mixt. with N-(3,4-dichlorophenyl)-N,N-dimethylurea [52906-82-8]

## Grana

See Chloroplast

## Granadilla

See Passionflower (*Passiflora*)

## Granatit F

See 1H-Benzimidazole, 2-(2-furanyl)-, mixt. with 1-(2-(2,4-dichlorophenyl)-2-(2-propenyloxy)ethyl)-1H-imidazole [70746-93-9]

## Granatit I

See Carbamic acid, 1H-benzimidazol-2-yl-, methyl ester, mixt. with 1-(2-(2,4-dichlorophenyl)-2-(2-propenyloxy)ethyl)-1H-imidazole [61392-42-5]

## Granary weevil

See *Sitophilus granarius*

## Granatane

See 9-Azabicyclo[3.3.1]nonane, 9-methyl- [491-25-8]

## Granatanine

See 9-Azabicyclo[3.3.1]nonane [280-97-7]

## Granatan-3-one

See 9-Azabicyclo[3.3.1]nonan-3-one, 9-methyl- [552-70-5]

## Granaticin

## —, dihydro-

See 1,4-Ethanonaphtho[2,3-c:6,7-c']dipyran-9-acetic acid, 1,3,4,6,7,9,10,11-octahydro-4,5,12,13-tetrahydroxy-3,7-dimethyl-6,11-dioxo-, (1R,3R,4S,7S,9R,13R)- [63999-06-4]

## Granaticin A

See 8,11-Ethanofuro[2,3-e]naphtho[2,3-c:6,7-c']dipyran-2,6,13(9H)-trione, 3,3a,5,8,11,13b-hexahydro-7,8,12,15-tetrahydroxy-5,9-dimethyl-, (3aS,5S,8S,9R,11R,13bS,15R)- [19879-06-2]

## Granaticin B

See 8,11-Ethanofuro[2,3-e]naphtho[2,3-c:6,7-c']dipyran-2,6,13(9H)-trione, 3,3a,5,8,11,13b-hexahydro-7,8,12-trihydroxy-5,9-dimethyl-15-(((2S,5S,6S)-tetrahydro-5-hydroxy-6-methyl-2H-pyran-2-yl)oxy)-, (3aS,5S,8S,9R,11R,13bS,15R)- [19879-03-9]

## Granaticinic acid

See 1,4-Ethanonaphtho[2,3-c:6,7-c']dipyran-9-acetic acid, 1,3,4,6,7,9,10,11-octahydro-4,5,10,12,13-pentahydroxy-3,7-dimethyl-6,11-dioxo-, (1R,3R,4S,7S,9S,10S,13R)- [71203-17-3]

## Granatin A (a form)

See β-D-Glucopyranose, cyclic 1,6-[(1S)-4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] cyclic 2-1:4-9-[(4aS,9bS)-3,4,4a,9b-tetrahydro-4,4a,6,7-pentahydroxy-3-oxo-1,9-dibenzofurandicarboxylate] [161205-11-4]

## Granatin A (b form)

See β-D-Glucopyranose, cyclic 2-5:4-7-[(3,6-dihydro-2,9,10,11,11-pentahydroxy-3-oxo-2,6-methano-2H-1-benzoxocin-5,7-dicarboxylate] cyclic 1,6-(4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate), stereoisomer [73683-70-2]

## Granatin B (a form)

See β-D-Glucopyranose, cyclic 3,6-[(1R)-4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] cyclic 2-1:4-9-[(4aS,9bS)-3,4,4a,9b-tetrahydro-4,4a,6,7-pentahydroxy-3-oxo-1,9-dibenzofurandicarboxylate] 1-(3,4,5-trihydroxybenzoate) [77322-54-4]

## Granatin B (b form)

See β-D-Glucopyranose, cyclic 2-5:4-7-[(2S,6S)-3,6-dihydro-2,9,10,11,11-pentahydroxy-3-oxo-2,6-methano-2H-1-benzoxocin-5,7-dicarboxylate] cyclic 3,6-[(1R)-4,4',5,5',6,6'-hexahydroxy[1,1'-biphenyl]-2,2'-dicarboxylate] 1-(3,4,5-trihydroxybenzoate) [161159-54-2]

## Granatite

## Granatoline

See 9-Azabicyclo[3.3.1]nonan-3-ol, (3-endo)- [504-12-1]

## Granatomycin A

See 1,4-Ethanonaphtho[2,3-c:6,7-c']dipyran-9-acetic acid, 1,3,4,6,7,9,10,11-octahydro-4,5,12,13-tetrahydroxy-3,7-dimethyl-6,11-dioxo-, methyl ester, (1R,3R,4S,7S,9R,13R)- [63972-31-6]

## Granatomycin B

See 1,4-Ethanonaphtho[2,3-c:6,7-c']dipyran-9-acetic acid, 1,3,4,6,7,9,10,11-octahydro-4,5,10,12,13-pentahydroxy-3,7-dimethyl-6,11-dioxo-, methyl ester, (1R,3R,4S,7S,9S,10S,13R)- [71203-18-4]

## Granatomycin C

See 8,11-Ethanofuro[2,3-e]naphtho[2,3-c:6,7-c']dipyran-2,6,13(9H)-trione, 3,3a,5,8,11,13b-hexahydro-7,8,12,15-tetrahydroxy-5,9-dimethyl-, (3aS,5S,8S,9R,11R,13bS,15R)- [19879-06-2]

## Granatomycin D

See 1,4-Ethanonaphtho[2,3-c:6,7-c']dipyran-9-acetic acid, 1,3,4,6,7,9,10,11-octahydro-4,5,12,13-tetrahydroxy-3,7-dimethyl-6,11-dioxo-, (1R,3R,4S,7S,9R,13R)- [63999-06-4]

## Granatomycin E

See 1,4-Ethanonaphtho[2,3-c:6,7-c']dipyran-9-acetic acid, 1,3,4,6,7,9,10,11-octahydro-4,5,10,12,13-pentahydroxy-3,7-dimethyl-6,11-dioxo-, (1R,3R,4S,7S,9S,10S,13R)- [71203-17-3]

## Granatum

See Pomegranate

## Grand

See Propanenitrile, 2,3-dibromo-, mixt. with trichloronitroethene [8070-54-0]

## Grandaxin

See 5H-2,3-Benzodiazepine, 1-(3,4-dimethoxyphenyl)-5-ethyl-7,8-dimethoxy-4-methyl- [22345-47-7]

## Grandic EB 0222

See 2-Propenoic acid, esters, 2-(hydroxymethyl)-2-[(1-oxo-2-propenyl)oxy]methyl-1,3-propanediyl ester, polymer with (chloromethyl)oxirane and 1,6-hexanediol [149698-65-7]

## Grandic FC 706

See Hexanedioic acid, polymers, polymer with 1,6-hexanediol, α-hydro-ω-hydroxypoly(oxyl-1,4-butanediyl), 2-hydroxyethyl 2-propenoate and 5-isocyanato-1-(isocyanatomethyl)-1,3,3-trimethylcyclohexane [113497-63-5]

## Grandidentatin

See β-D-Glucopyranoside, 2-hydroxycyclohexyl, 2-(3-(4-hydroxyphenyl)-2-propenoate) [15732-48-6]

## Grandidentoside

See β-D-Glucopyranoside, 2-hydroxycyclohexyl, 2-(3-(3,4-dihydroxyphenyl)-2-propenoate) [28307-53-1]

## Grandidone A

See Spiro[phenanthrene-9(1H),2'-phenanthro[3,4-d]-